OWNER'S MANUAL

Palsonic

HIGH DEFINITION SET-TOP-BOX
MODEL: HDSTB100

N111

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Table of Contents

Step 1: Connect AC Power Cord

Plug the AC power cord into the AC outlet. **Do not turn on any devices until you have finished making all necessary connections.**

Step 2: Antenna Connection

Connect the antenna cable to the **RF IN** jack on the rear panel of the STB (For details, please refer to *page 8*).

Step 3: Connecting to Monitor

A. If your monitor is an Analog Monitor, please follow the diagram and notes in *page 9* when connecting the STB to your monitor.

B. If your monitor is a HD Monitor (YPbPr type), please follow the diagram and notes in *page 10* when connecting the STB to your monitor.

C. If your monitor is a HD Monitor (RGB type), please follow the diagram and notes in *page 11* when connecting the STB to your monitor.

Step 4: Connecting to a Secondary Display or VCR

Please follow the diagram and notes in *page 12* when connecting the STB to the Secondary Display or VCR.

Step 5: Connecting to an Amplifier

Please follow the diagram and notes in *page 12* when connecting the STB to the Amplifier.

Step 6: Turning STB On

Press the **Power Switch** on the STB to turn on the STB.
Note: Monitor should also be turned on.

Step 7: Setting Time Zone

To obtain local time, you should first set local time zone. For further details, please refer to *page 18*.

Chapter 1: Safety Instructions

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS INSTALLATION AND OPERATING GUIDE AND THOSE MARKED ON THE UNIT. RETAIN THIS GUIDE FOR FUTURE REFERENCE.
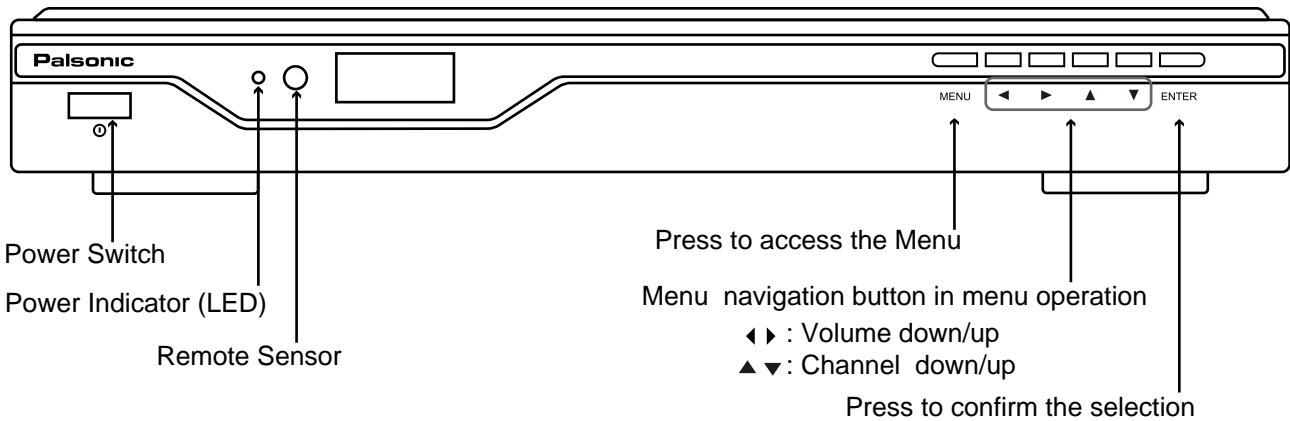
This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing.

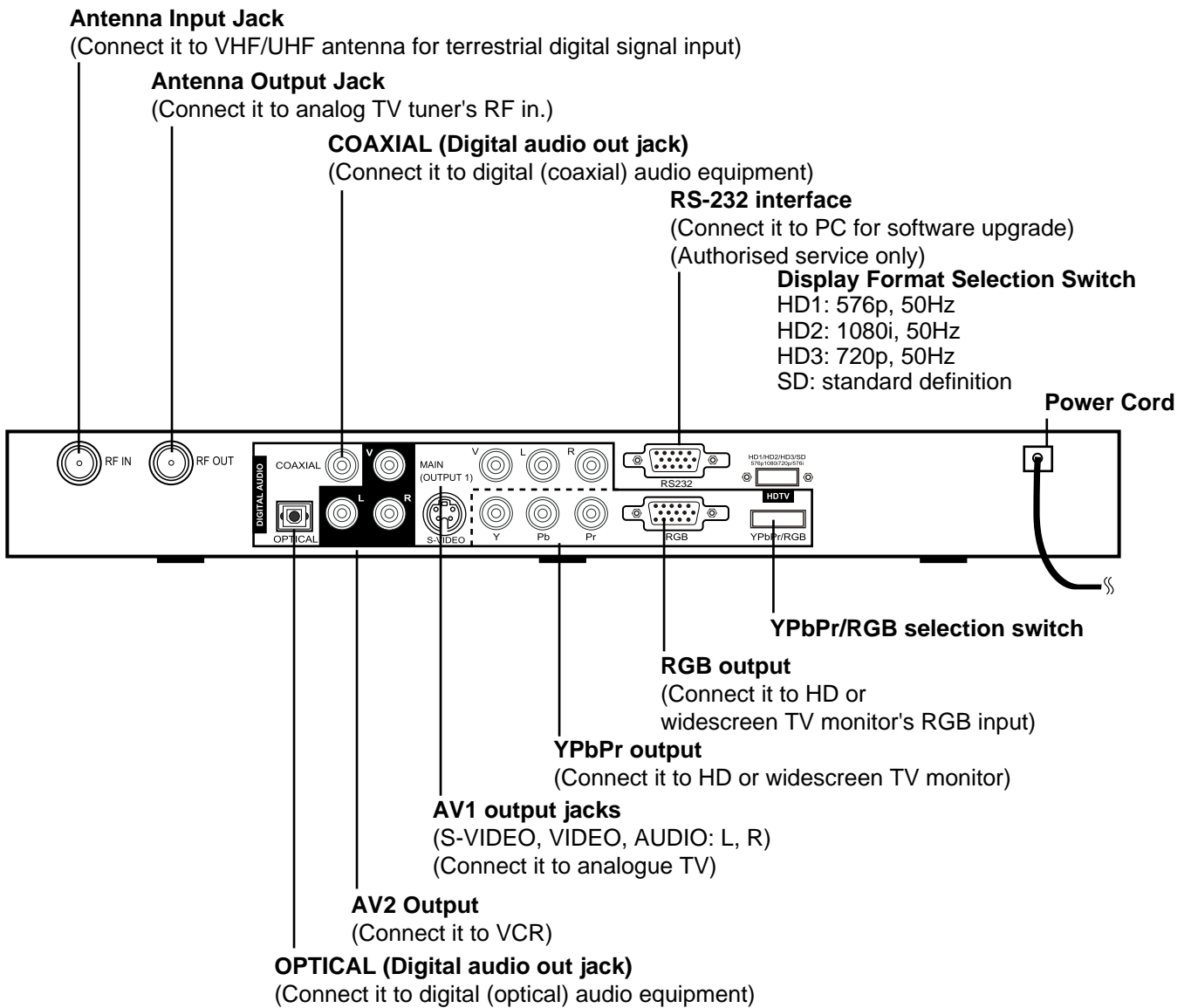This unit does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.
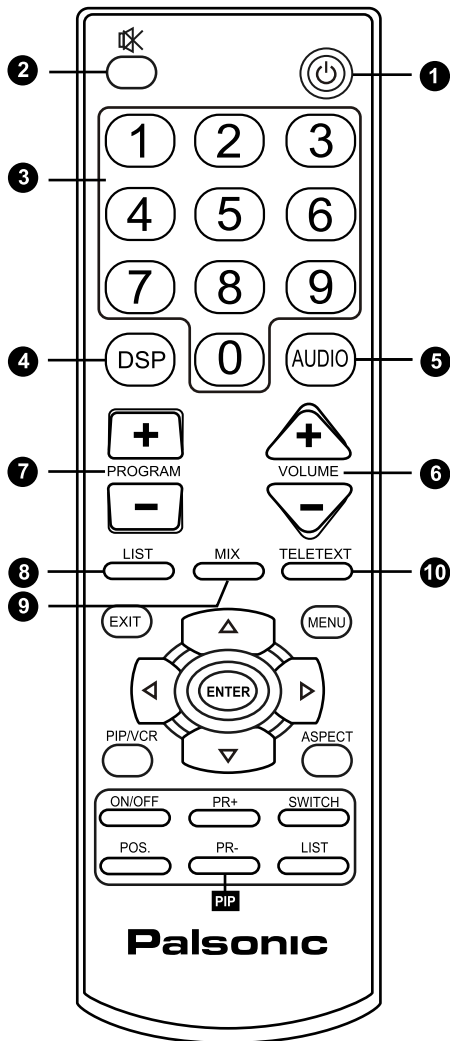
1. **Read these instructions**. - All these safety and operating instructions should be read before the product is operated.

2. **Keep these instructions**. - The safety, operating and use instructions should be retained for future reference.

3. **Heed all warnings**. - All warnings on the product and in the operating instructions should be adhered to.

4. **Follow all instructions.** - All operating and use instructions should be followed.

5. **Do not use this apparatus near water**. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; near a swimming pool; etc.

6. **Clean only with dry cloth.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product, and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.

8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**

9. **Do not defeat the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**

10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**

11. **Only use attachments/accessories specified by the manufacturer.**

12. **Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.**

13. **Unplug this apparatus during lightning storms or when unused for long periods of time.**

14. **Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.**

Front View

Power Switch

Power Indicator (LED)

Remote Sensor

Press to access the Menu

Menu navigation button in menu operation
◄ ► : Volume down/up
▲ ▼ : Channel down/up

Press to confirm the selection

Back View

Antenna Input Jack
(Connect it to VHF/UHF antenna for terrestrial digital signal input)

Antenna Output Jack
(Connect it to analog TV tuner's RF in.)

COAXIAL (Digital audio out jack)
(Connect it to digital (coaxial) audio equipment)

RS-232 interface
(Connect it to PC for software upgrade)
(Authorised service only)

Display Format Selection Switch
HD1: 576p, 50Hz
HD2: 1080i, 50Hz
HD3: 720p, 50Hz
SD: standard definition

Power Cord

YPbPr/RGB selection switch

RGB output
(Connect it to HD or
widescreen TV monitor's RGB input)

YPbPr output
(Connect it to HD or widescreen TV monitor)

AV1 output jacks
(S-VIDEO, VIDEO, AUDIO: L, R)
(Connect it to analogue TV)

AV2 Output
(Connect it to VCR)

OPTICAL (Digital audio out jack)
(Connect it to digital (optical) audio equipment)

You can operate every function of this STB using the buttons on the remote control handset. Below is the remote control functional key list.

1 ⏻	Press to turn ON and OFF (in standby).	
2 🔇	Press to mute the sound. Press again to restore.	
3 0 ~ 9	Press numeric keypad to select any channel. In menu operation, used to enter numerical values wherever required, e.g. to enter a password.	
4 DSP	You can quickly check the status of current display program by pressing the DSP button. Press DSP button twice to display EPG information if available.	
5 AUDIO	You can choose different audio outputs in Audio Setup menu. The STB includes standard audio mode options such as stereo or mono sound to match the broadcast signal or your home entertainment stereo system. Other audio mode options may be supported by your service provider or TV broadcaster, such as selecting alternate languages, or different commentators for sport events. Press AUDIO button, then make use of menu navigation button (▲,▼) and ENTER button to select.	
6 VOLUME +/-	Press to increase or decrease the volume.	
7 PROGRAM+/-	Select next/previous programs.	
8 LIST	When you are watching TV channels, you can press **LIST** button to call up the Program List.	
9 MIX	Press to conceal or reveal main picture and (or) PIP when viewing teletext.	
10 TELETEXT	Press to display teletext on the screen if available. **Note:** normally it will display teletext index page P100 when pressing TTX button. If TV station does not broadcast teletext information but caption, the unit will switch to Page 801 to display Caption after 15 seconds. If you are sure that there is no index page, you can directly enter into page 801 to save time. Whether there is index page or not, you can consult local station.	

Remote control battery installation

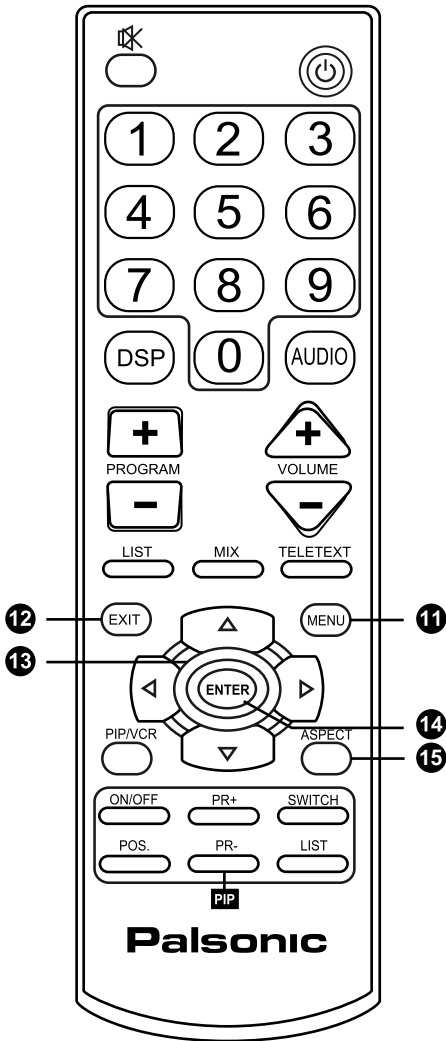Detach the battery cover on the rear of the remote control, and insert two size AAA batteries in correct polarity.

Caution
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 5 m from the front of the remote sensor.
- **Angle:** About 300 in each direction of the front of the remote sensor.

Cautions regarding use of remote control

■ Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.

■ Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.

■ The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or STB, or operate the remote control closer to the remote sensor window.

⑪ **MENU**	Brings up the main menu. Press again to return to normal viewing.
⑫ **EXIT**	Press to exit the current menu and return to previous level menu.
⑬ ◀ ▶ ▲ ▼	Menu navigation buttons.
⑭ **ENTER**	Press to select the highlighted menu item or enter into sub-menu.
⑮ **ASPECT**	Press to select picture aspect ratio to match signal and monitor format. You can also change the aspect ratio for your personal viewing preference. Each time the **ASPECT** button is pressed, the STB will cycle to the next available aspect ratio choice.

Note: see following chart for illustrations of the various aspect ratios.

Source Signal	Pressing **ASPECT** button
16:9	16:9 FULL ⇨ 4:3 LETTERBOX ⇨ 4:3 ZOOM
4:3	4:3 FULL ⇨ 16:9 SIDEBAR ⇨ 16:9 ZOOM

Full Aspect (16:9 FULL, 4:3 FULL)
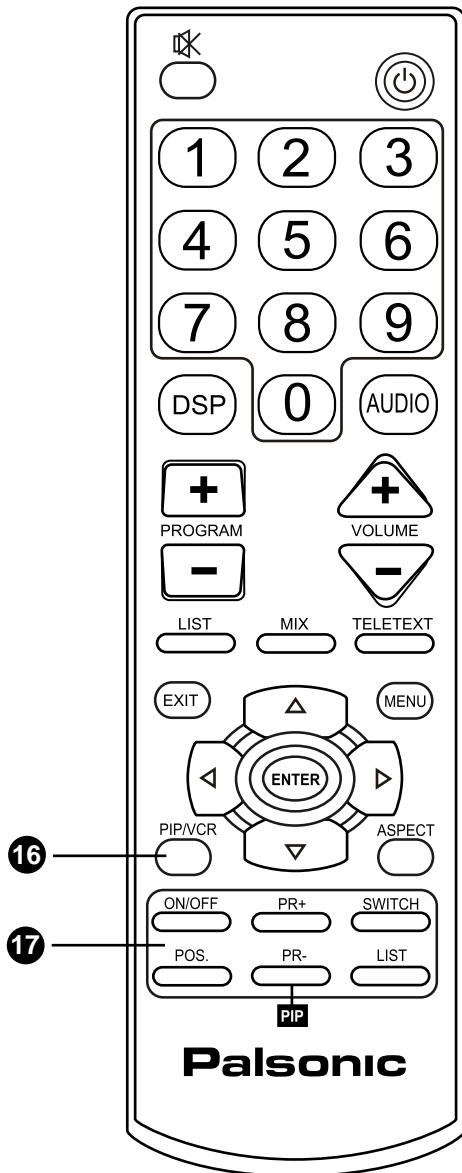16:9 or 4:3 picture will be displayed in the centre of the viewing screen at full screen width and height.

Zoom Aspect (4:3 ZOOM, 16:9 ZOOM)
The picture will be expanded uniformly (width and height) to fill the viewing screen. The picture will be cropped, either horizontally or vertically to fit the viewing screen. The cropped portion of the original picture will be lost from view.
In some cases, in order to properly view Captioning, you may change the aspect ratio from ZOOM to Full.

4:3 Letterbox Aspect
Video formats with aspect ratios greater than 16:9 will be displayed at the proper width, so no video information is lost. Black bars will appear above and below the picture.

16:9 Sidebar Aspect
4:3 pictures will be viewed on a wide aspect TV screen with vertical bars on both sides of the picture.

16 PIP/VCR Switch between PIP and VCR for the secondary program display.

Note: For PIP output or VCR output, you can only select one output at the same time. If PIP is selected, then VCR can not be selected; If VCR is selected, then PIP can not be selected. You can press PIP/VCR button to toggle and select one mode you desire.

17 PIP control buttons

ON/OFF: to turn on/off PIP function.

POS.: to select PIP position.

PR+/-: to select next/previous program for PIP.

SWITCH: to swap the main and sub-pictures if the secondary display is at PIP status. Or to switch VCR program to main screen display and main program to VCR if the secondary display is at VCR status.
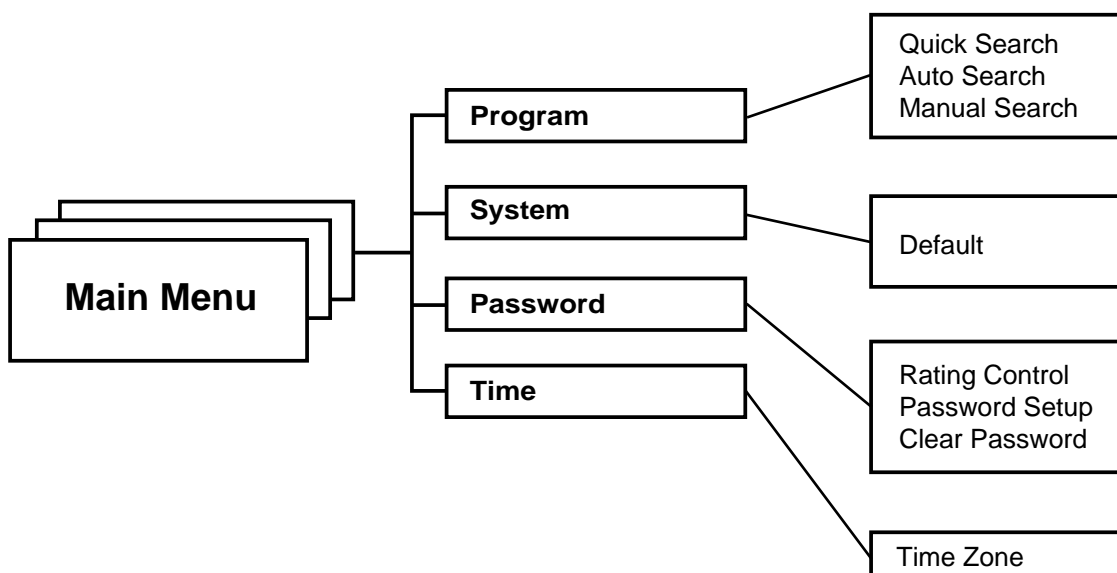
LIST: to display PIP (or VCR) program list.

Note: when pressing PIP/VCR and PIP control buttons, within 5 seconds after corresponding OSD disappear, if you press digit buttons, DSP, ASPECT, VOLUME+/-, MUTE buttons, it will affect PIP picture (or VCR picture). After 5 seconds, it will affect main picture.

Menu Overview

1 Press **MENU** button to access the menu mode.

2 Press ▲/▼ button to select and highlight the menu item upward or downward.

3 Press **ENTER** button to confirm and enter into its sub-menu.

4 In menu operation, press ▲/▼ and ◄/► to navigate in menus, press **ENTER** to activate the selected menu items .

5 Press **EXIT** button to exit the current menu and return to previous-level menu while pressing **MENU** button will exit the menu mode.

```
                                          ┌────────────────────┐
                                          │ Quick Search       │
                         ┌─────────────┐  │ Auto Search        │
                         │ Program     │──│ Manual Search      │
                         └─────────────┘  └────────────────────┘
  ┌──────────────┐       ┌─────────────┐
  │              │       │ System      │  ┌────────────────────┐
  │              │───────└─────────────┘──│ Default            │
  │  Main Menu   │       ┌─────────────┐  └────────────────────┘
  │              │       │ Password    │
  └──────────────┘       └─────────────┘  ┌────────────────────┐
                         ┌─────────────┐  │ Rating Control     │
                         │ Time        │──│ Password Setup     │
                         └─────────────┘  │ Clear Password     │
                                          └────────────────────┘

                                          ┌────────────────────┐
                                          │ Time Zone          │
                                          └────────────────────┘
```
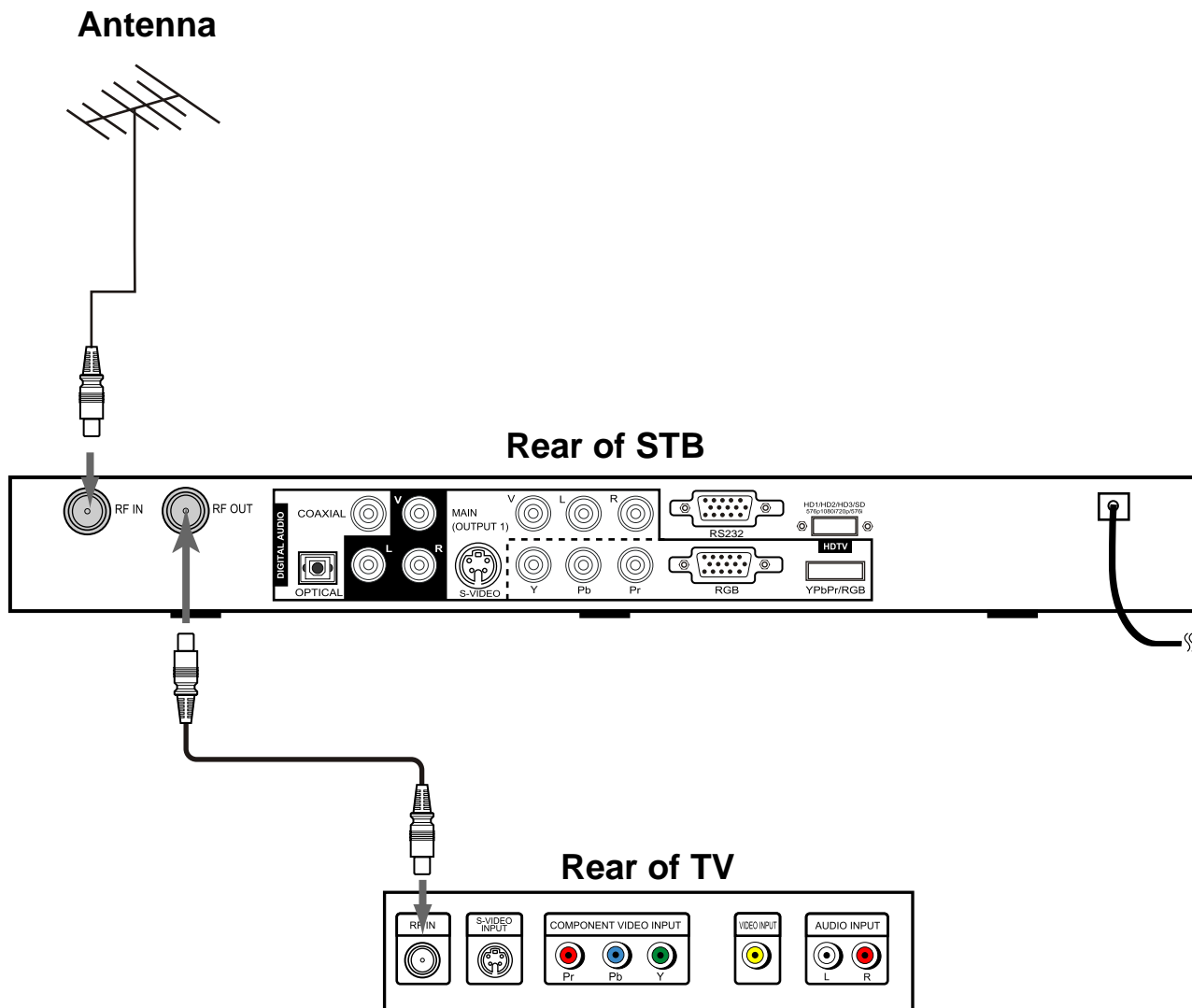
Connect AC power cord

Plug the AC power cord into an AC outlet. Do not turn on any devices until you have finished making all necessary connections.

Connecting to Antenna

Follow this diagram when connecting.

Antenna

Rear of STB

Rear of TV

Display Formats Overview

The HD-STB Tuner offers various display formats and multiple video outputs. When the HD-STB Tuner is connected to A/V systems, the HD-STB Tuner can provide video signal formats 1080i, 720p, 576p, or 576i.
1080i, 720p and 576p modes are available for component video (YPbPr) and monitor outputs.
576i mode is available for VIDEO and S-VIDEO outputs.
The HD-STB Tuner has two digital audio outputs; Dolby Digital 5.1 and PCM. The HD-STB Tuner sends out digital audio signal to OPTICAL and COAXIAL audio outputs when a digital broadcast is being received by the HD-STB Tuner.

Connecting to an Analog monitor

Follow this diagram when connecting.

Antenna

Rear of STB

OR

Rear of TV
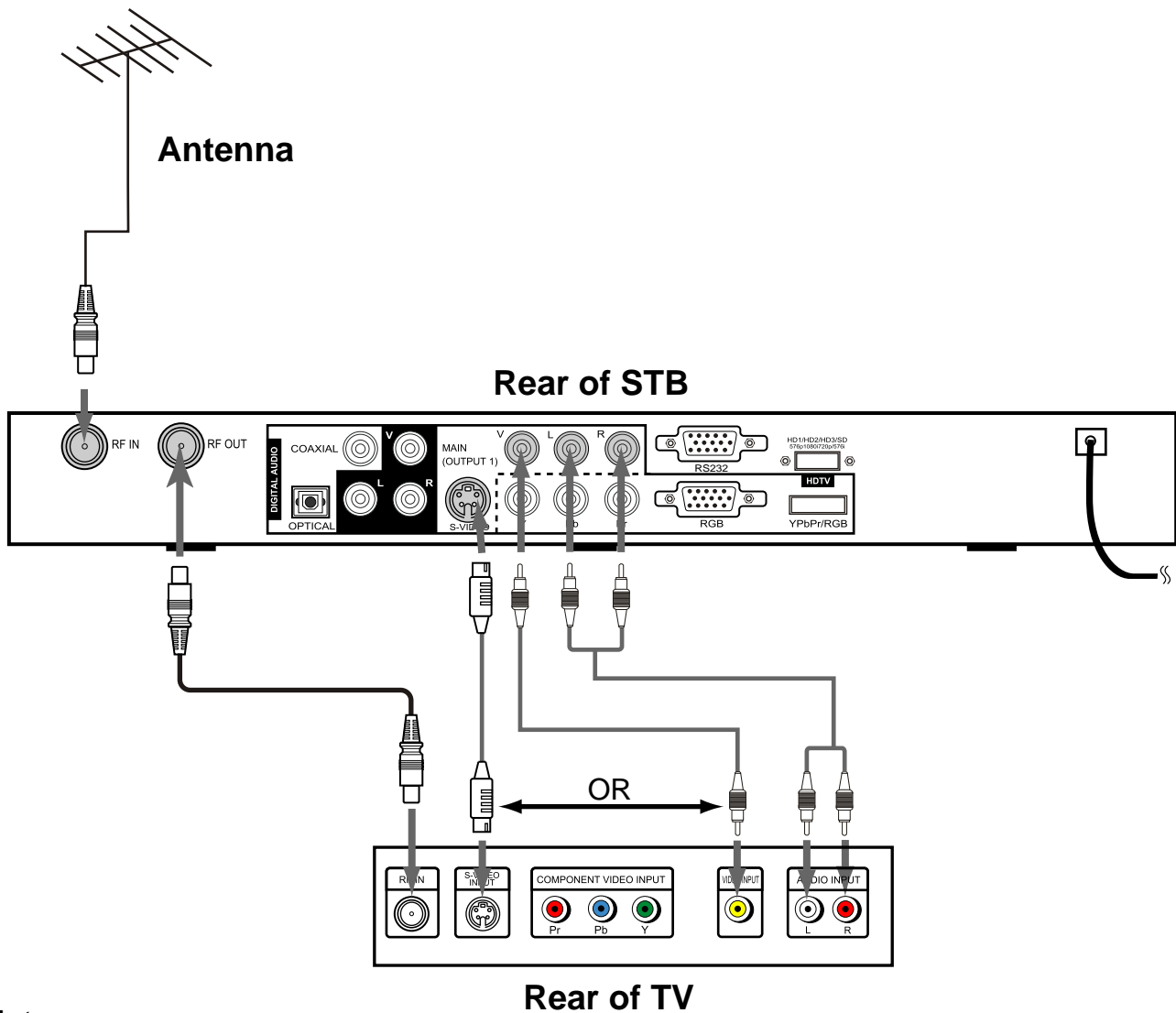
Note:

- Connect video (or S-video) cable from the OUTPUT 1 video (or S-video) jack on the STB to the video (or S-video) input jack on the TV. S-video is recommended to be used because S-video will provide better picture quality.

- These connections are only available when SD (576i display format) is selected by toggling the Display Format Selection Switch.

❶ Important

After you toggle the Display Format Selection Switch, you must turn off the STB and then turn on again, then the toggling can effect.

Connecting to a HD monitor (YPbPr type)

Follow this diagram when connecting.

Antenna

Rear of STB

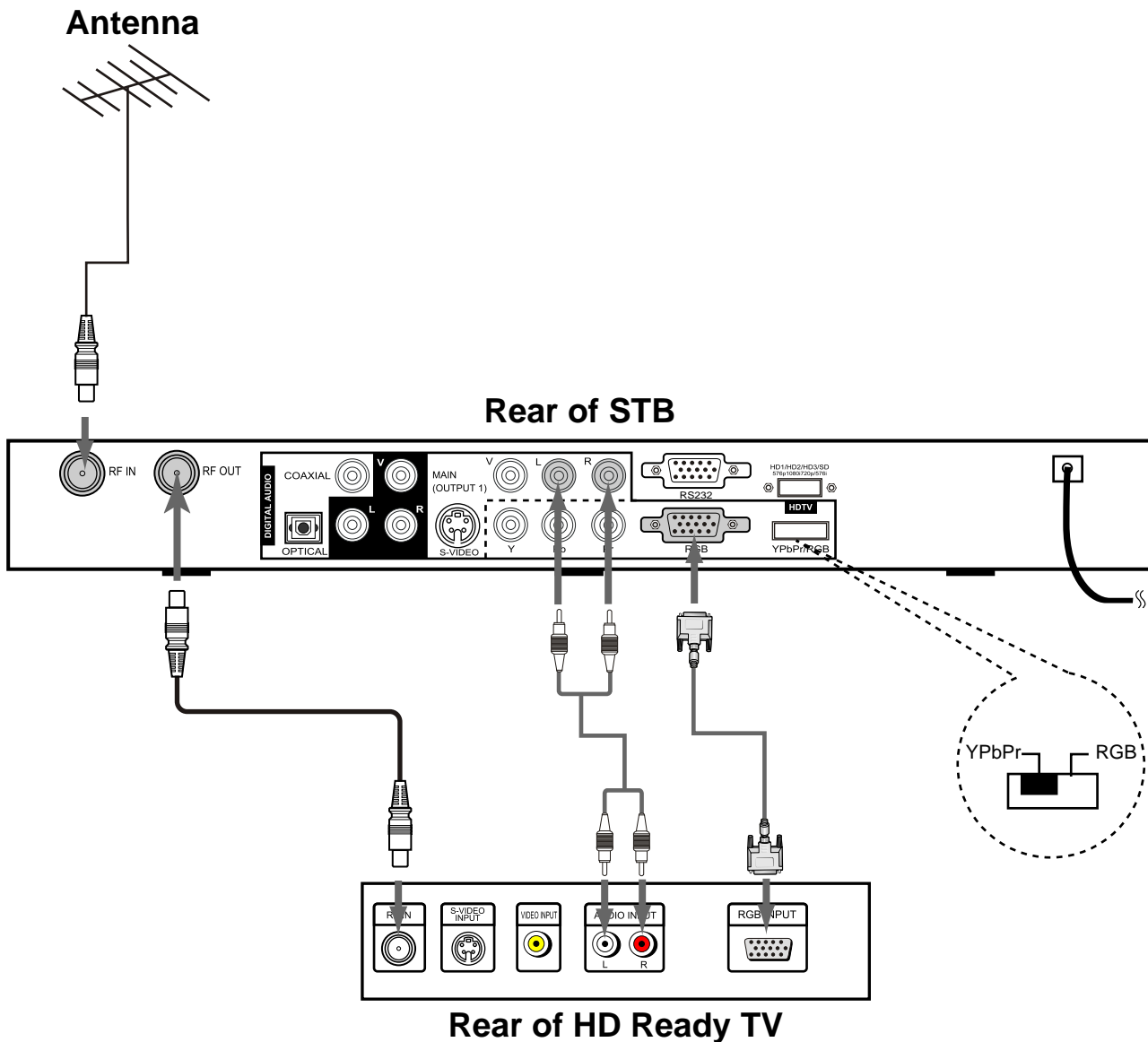**Rear of HD Ready TV**
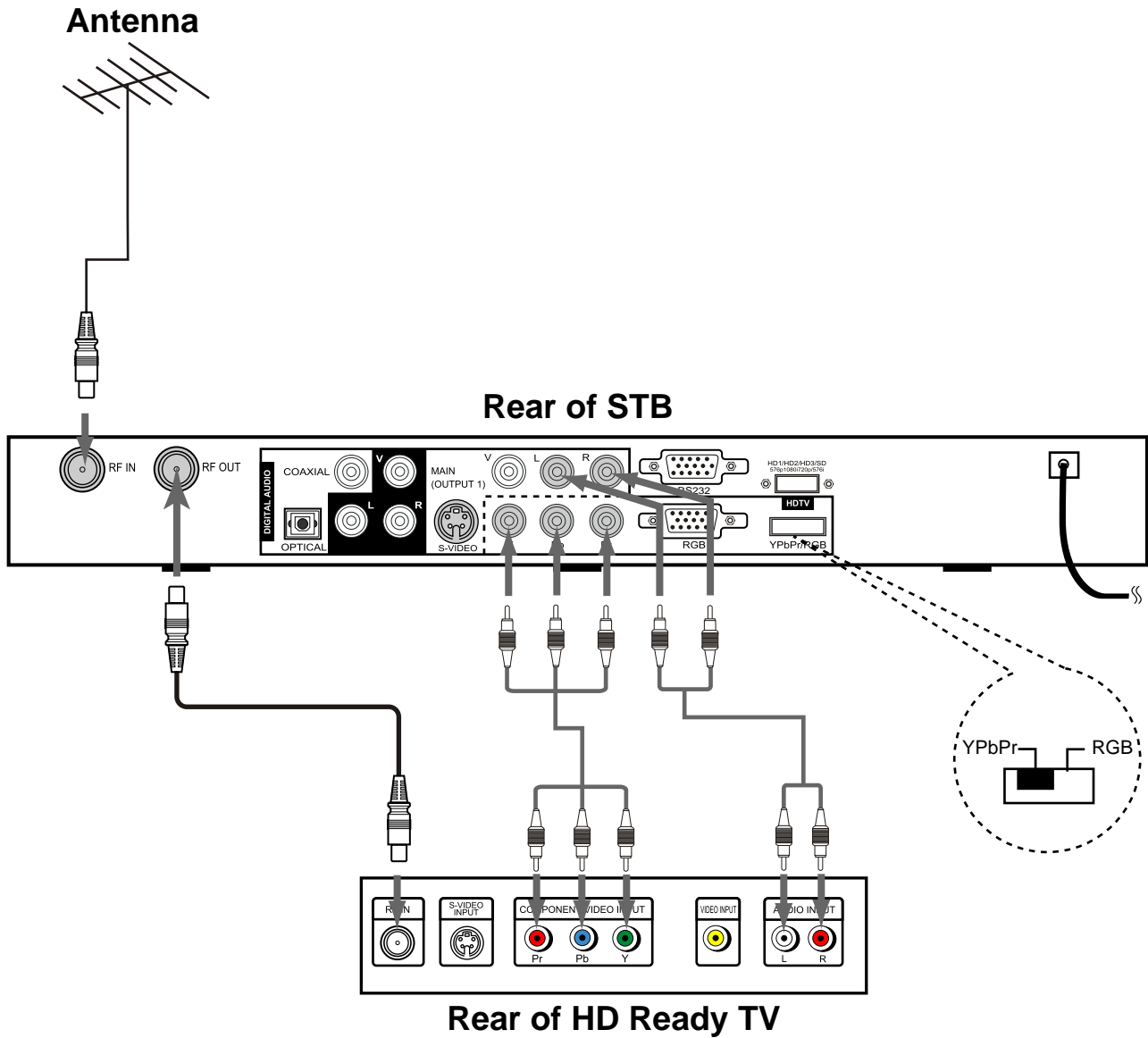
Note:
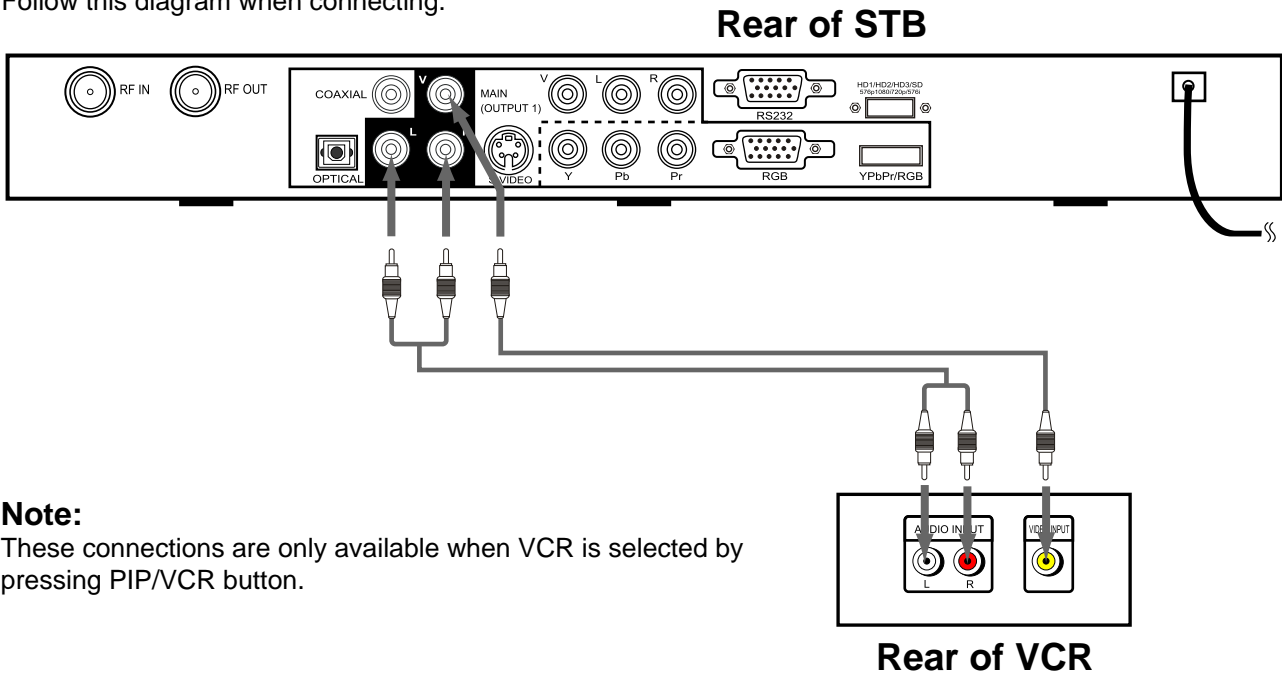The YPbPr/RGB selection switch must be set to YPbPr.
The component out jacks are available when HD1 (576p), HD2 (1080i), or HD3 (720p) display format is selected.

❶ Important

After you toggle the Display Format Selection Switch, you must turn off the STB and then turn on again, then the toggling can effect.

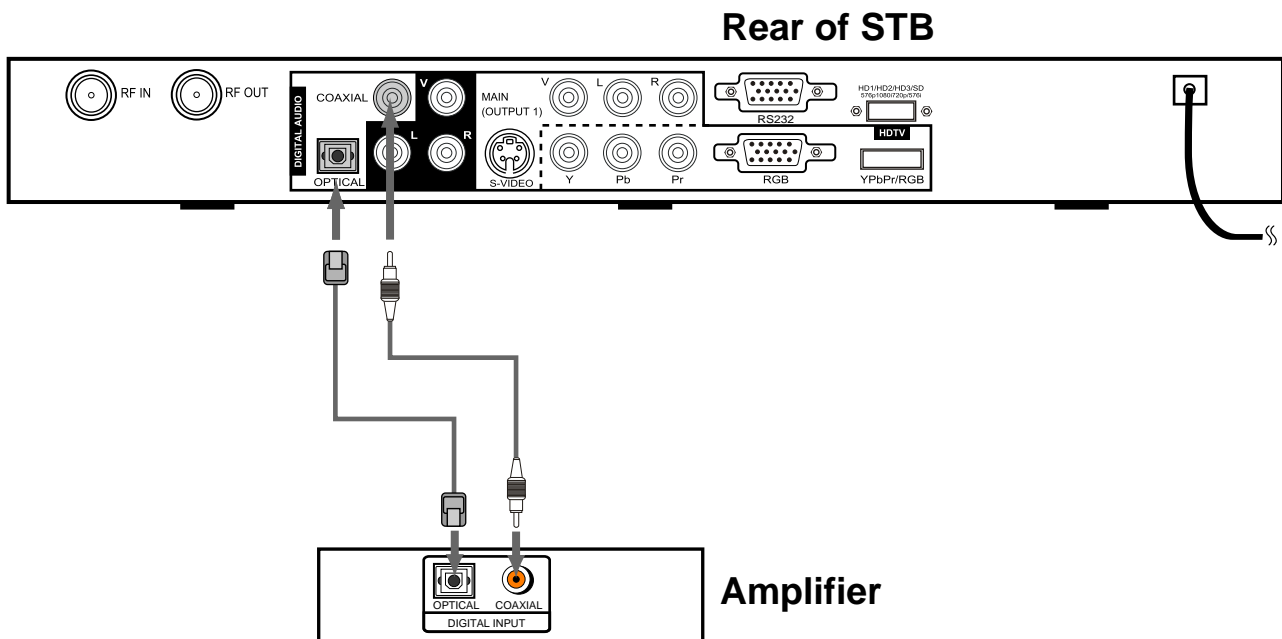## Connecting to a HD monitor (RGB type)

Follow this diagram when connecting.

Antenna

Rear of STB

Rear of HD Ready TV

Note:
The YPbPr/RGB selection switch must be set to RGB.
The RGB out jack is available when HD1 (576p), HD2 (1080i), or HD3 (720p) display format is selected.

❶ Important

After you toggle the Display Format Selection Switch, you must turn off the STB and then turn on again, then the toggling can effect.

Connecting to a VCR

Follow this diagram when connecting.

Rear of STB

Note:
These connections are only available when VCR is selected by pressing PIP/VCR button.

Rear of VCR

Connecting to an Amplifier

Follow this diagram when connecting.

Rear of STB

Amplifier

Connecting to an amplifier equipped with OPTICAL or COAXIAL.

You must perform the program search when using the STB at the first time. There are three ways to search programs: Quick Search, Auto Search and Manual Search.

Quick Search

If you live in the cities listed on the Quick Search menu, you may go ahead to select your city and start scanning all digital TV channel Signals.

1 Press **MENU** button to access the menu mode.

2 Press ▲ / ▼ button to select and highlight **Program**.

3 Press **ENTER** button to enter into the **Program** menu.

4 Press ▲ / ▼ button to highlight **Quick SRCH**.

5 Press **ENTER** button to enter into Quick search sub-menu.

6 Highlight the first menu bar and use ◀ / ▶ button to select the city you live in.

7 Move the highlight to **Begin** and press **ENTER** to start the searching.

To cut off the searching during the process, highlight **CANCEL** and press **ENTER**.
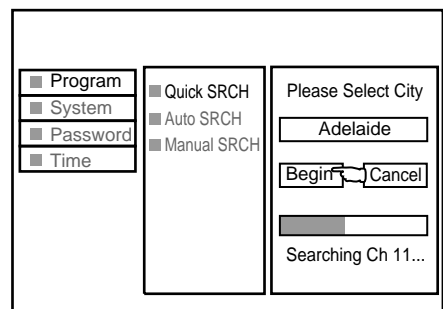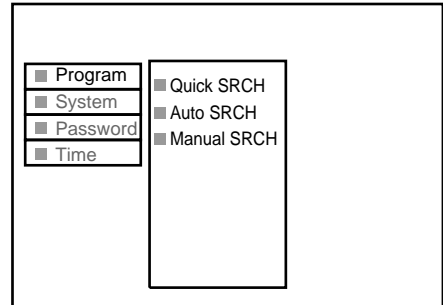
Auto Search

Auto search will automatically find all channels (digital) available through the antenna inputs, and store all the active channels in the channel list.

1 Enter into **Program** menu and select **Auto SRCH**. Press **ENTER** button to enter into **Auto search** sub-menu.

2 Move the cursor to **Begin** and press **ENTER**.
Now the auto channel search process begins.

3 When channel scanning is complete, the first channel found appears on the TV screen.

To cut off the searching during the process, highlight **CANCEL** and press **ENTER**.
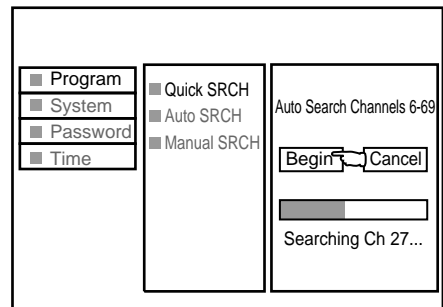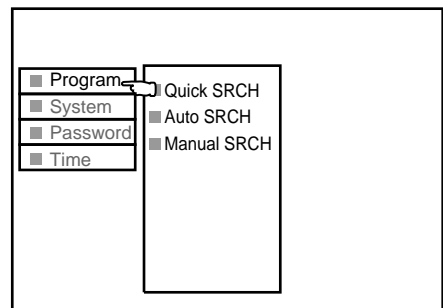
Manual Search

If desired programs can not be searched, you can make use of Manual Search.

1 Press **MENU** button to access the menu mode.

2 Press ▲/▼ button to select and highlight **Program**.

3 Press **ENTER** button to enter into the **Program** menu.

4 Press ▲/▼ button to highlight **Manual SRCH**.

5 Press **ENTER** button to enter into **Manual search** sub-menu.

6 Highlight **CH NO**. and press **ENTER**. Use ◀/▶ button to move the cursor rightward or leftward and use ▲/▼ button to select number (or directly input the number by digit buttons), then press **ENTER**. Be sure you know the channel number.
(You can refer to **Digital TV channel table** on page 19).

7 Move the highlight to **OK** and press **ENTER**.
Now it starts searching.
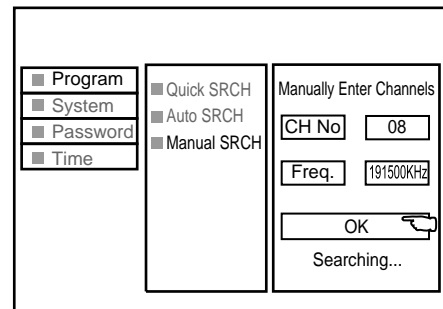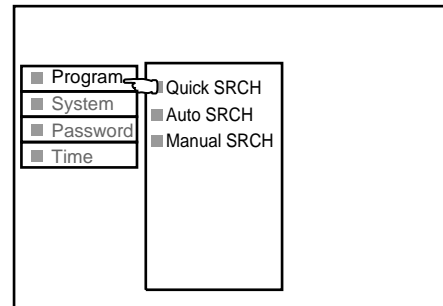
Note: Normally it is unnecessary to input the frequency value. However, if you want to input the frequency, you can highlight **Freq.**, then make use of ENTER, ▲/▼ , ◀/▶ 0-9 digit buttons to input.
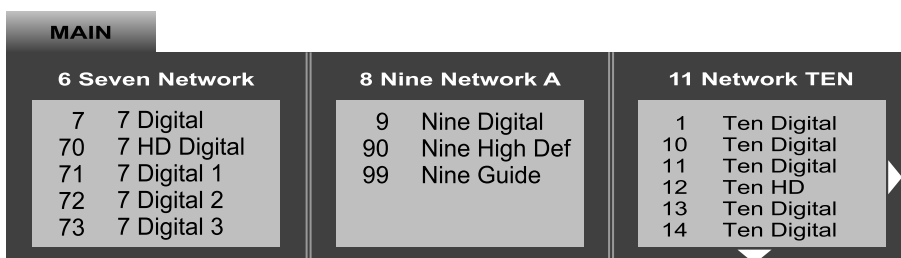
Channel and Program Selection

Channel and program selection in digital television is very different from current conventional television. In DTV, multiple programs can exist within a single 7 MHz channel. These programs behave as sub-channels within the single channel. When tuning to a channel, the STB will also tune to a program. Your STB will indicate the channel and program through the On-Screen Display.

The STB allows channel and program selection in the following ways:

Direct select (0-9 keys) - Directly selects a channel or program.
Program up/down select (PROGRAM+/PROGRAM- buttons) - Select the next or previous available channel or program.
Making use of Program List to select.

Making use of Program List to select program

1 Press **LIST** button to call up Program List.

2 Press **navigation** buttons (▲/▼/◀/▶) to select and press **ENTER** to confirm, then the desired program is selected.

MAIN

6 Seven Network	8 Nine Network A	11 Network TEN
7　7 Digital	9　Nine Digital	1　Ten Digital
70　7 HD Digital	90　Nine High Def	10　Ten Digital
71　7 Digital 1	99　Nine Guide	11　Ten Digital
72　7 Digital 2		12　Ten HD
73　7 Digital 3		13　Ten Digital
		14　Ten Digital

Note: the shown information is only served as an illustration and may differ from the actual ones.
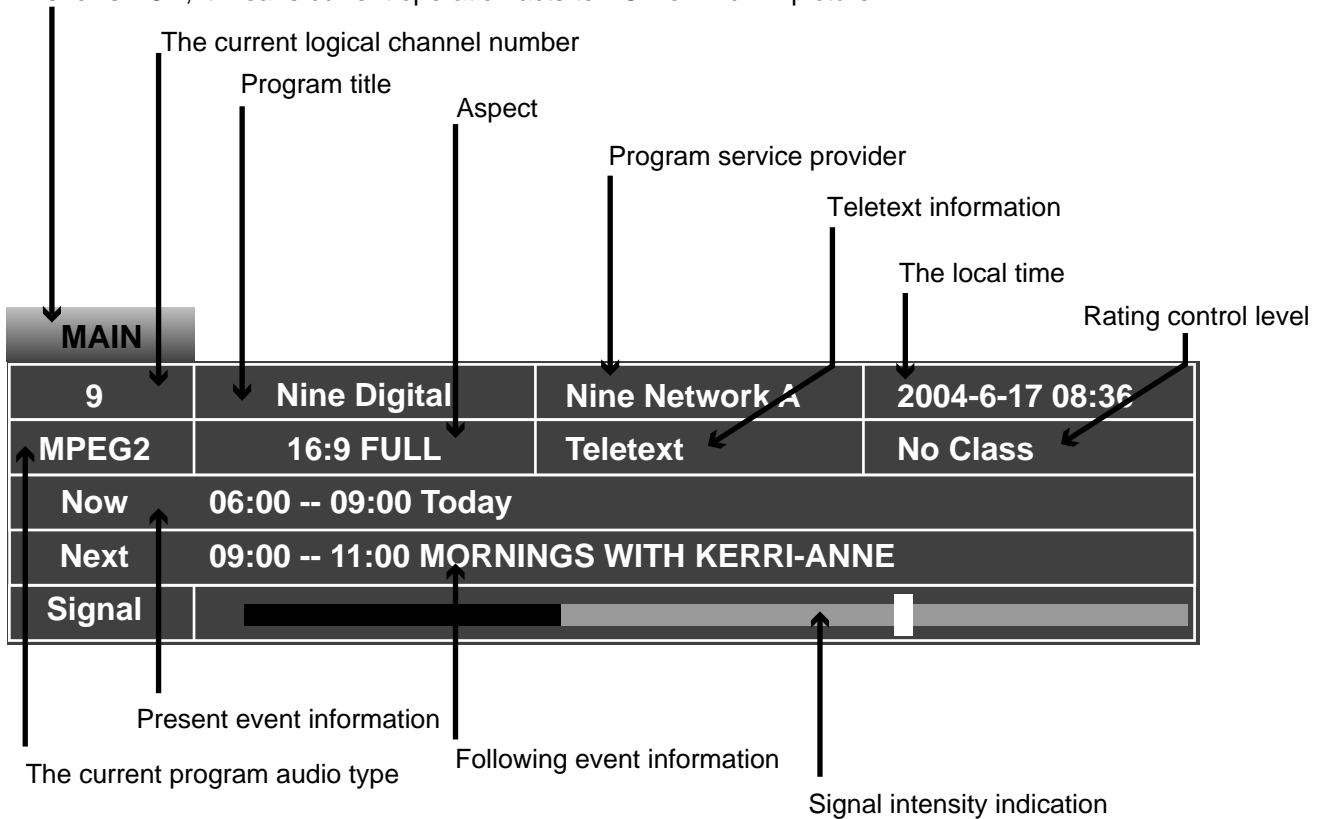
Channel Banner

You can quickly check the status of current display program by pressing the **DSP** button.
Press **DSP** button twice to display EPG information if available.

Indicator
if shows MAIN, it means current operation acts to main picture.
if shows PIP, it means current operation acts to PIP sub-picture.
if shows VCR, it means current operation acts to VCR or 2nd TV picture.

The current logical channel number

Program title

Aspect

Program service provider

Teletext information

The local time

Rating control level

MAIN			
9	Nine Digital	Nine Network A	2004-6-17 08:36
MPEG2	16:9 FULL	Teletext	No Class
Now	06:00 -- 09:00 Today		
Next	09:00 -- 11:00 MORNINGS WITH KERRI-ANNE		
Signal			

Present event information

Following event information

The current program audio type

Signal intensity indication

| EPG (MAIN)		
Start	**Stop**	**Event Name**
06:00	09:00	TODAY
09:00	11:00	MORNINGS WITH KERRI-ANNE

TODAY

Audio Setup

You can choose different audio outputs in Audio Setup menu. The STB includes standard audio mode options such as stereo or mono sound to match the broadcast signal or your home entertainment stereo system. Other audio mode options may be supported by your service provider or TV broadcaster, such as selecting alternate languages, or different commentators for sport events.

1   Press **AUDIO** button to access the **Audio Setup** menu.

2   Press ▲/▼ button to move the highlight upward or downward.

3   Press **ENTER** button to select sub-audio.

    You can select different audio output systems for Primary Audio and Secondary Audio.
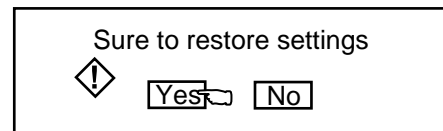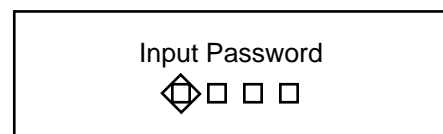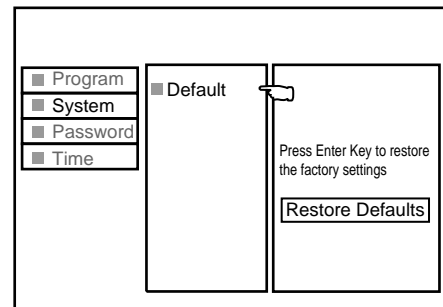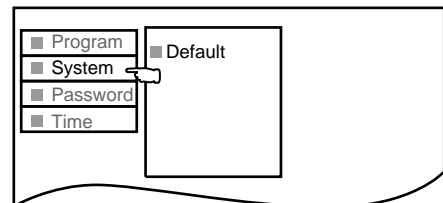
| Audio Setup (MAIN) |
| Only 1 Audio (MPEG2) |
| STEREO OUTPUT ☜ |
| Press enter to set audio Ch. |
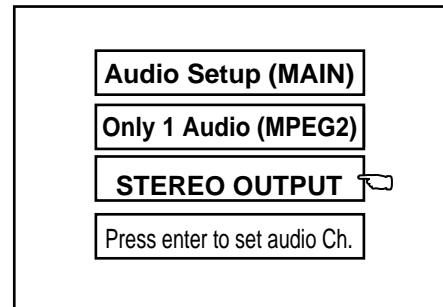
Default Setup

Making use of Default function, you can restore all settings to the factory settings.

1   Enter into **System** menu and select **Default**.

2   Press **ENTER** button to enter into the sub-menu and then press **ENTER** button to confirm.

3   If you have set a password in Password Sub-menu, then a dialogue box appears asking you to input a password.

4   Input the password correctly. After inputting, a dialogue box **"Sure to restore settings"** pops up.

5   Highlight **Yes** and press **ENTER** button if you want to restore all settings to the factory settings.
    If not, highlight **No** and press **ENTER**.

Note: as regards to password information, please refer to page 17 for details.
       There is no preset password in this STB.

■ Program
■ System ☜
■ Password
■ Time
■ Default

■ Program
■ System
■ Password
■ Time
■ Default ☜
Press Enter Key to restore the factory settings
Restore Defaults

Input Password
◇ □ □ □

Sure to restore settings
⚠ Yes☜ No

Password setup

The Rating Control lets you set up specific channels and ratings through blocking schemes. To activate or disable all of the lock schemes previously set up, a password is required to gain access to this menu. You can change the password by inputting a new password twice.

1 Press **MENU** button to access the menu mode.

2 Press ▲/▼ button to select and highlight **Password**.

3 Press **ENTER** button to enter into the Password menu.

4 Press ▲/▼ button to highlight **PWD Setup**. Press **ENTER** to enter into the next level.

   **When you have not set a password yet;**
   Enter a password using the numbered buttons to create a personal 4-digit security password.

   When you have already set a password and you want to change it;
   Enter the old password, then input a 4-digit new password using the numbered buttons and confirm again.

   Note:
   There is no preset password in this STB, therefore when you use this STB at the first time, you may create a password by yourself if required.
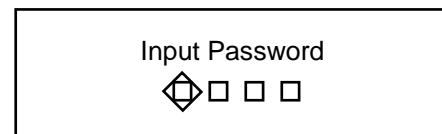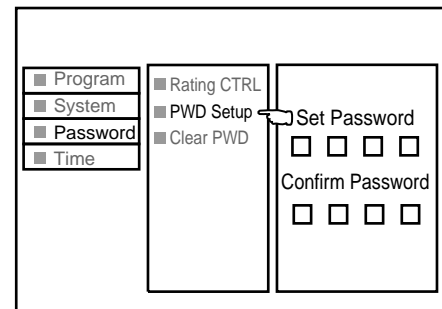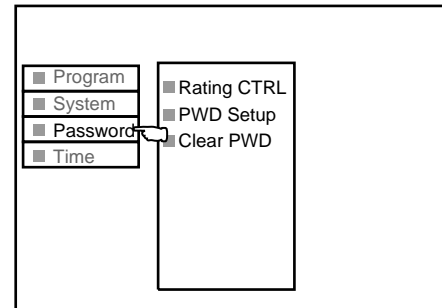
Clear password

If you want to clear the password, please do the following steps:

1 Enter into the **Password** sub-menu.

2 Press ▲/▼ button to select and highlight **Clear PWD**. Press **ENTER** to enter into the next level.
   Now a dialogue box appears asking you to input the old password.

3 Input the old password correctly. Now a dialogue box **"Sure to clear password?"** appears. Select **Yes** and press **ENTER**.

4 Now the password is cleared.
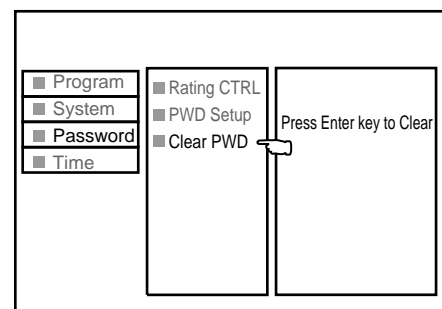
Rating control

Blocks programs according to the program ratings limit so children can not view certain programs. You can set the ratings limit by blocking out all the programs with the ratings above a specified level.

1 Press **MENU** button to access the menu mode.

2 Press ▲/▼ button to select and highlight **Password**.

3 Press **ENTER** button to enter into the Password menu.

4 Press ▲/▼ button to highlight **Rating CTRL**. Press **ENTER** to enter into next level sub-menu.
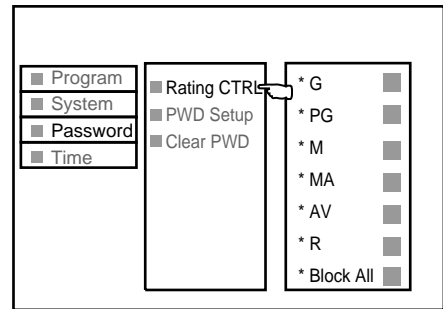
When you have not set a password yet, you directly go to the Rating Control sub-menu.

When you have already set a password, input the password correctly and enter.

5 Press ▲/▼ to move the highlight upward or downward and press **ENTER** to either block or unblock the rating.

Note:
You can either block (☑) or unblock (■) all programs quickly by using **Block All** setting.

|	
G	**(General Audiences):** Content not offensive to most viewers.
PG	**(Parental Guidance Suggested):** Content is such that parents may not want their children to view the program.
M	**(Mature Audience):** Suitable for mature audience.
MA	**(Mature Adult Audience):** May contain mature themes, profane language, graphic violence, and sexual situations.
AV	**(AdultAudience):** Strong violence.
R	**(Restricted viewing):** Not for children under age 17. Strong elements of sex and/or violence.

Time zone selection

To obtain local time, you should first set local time zone, and it depends on your local station whether has broadcast time zone information.

1 Press **MENU** button to access the menu mode.

2 Press ▲/▼ button to select and highlight **Time**.

3 Press **ENTER** button. Now **Time Zone** is highlighted.

4 Press **ENTER** button again to enter into next level.

5 Press ▲/▼ button to move the highlight upward or downward and press **ENTER** to select your local time zone.
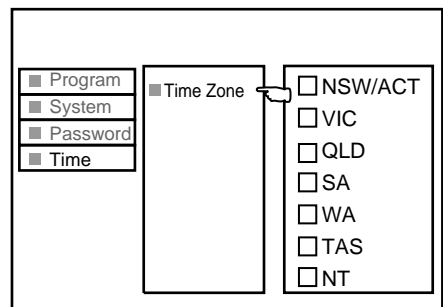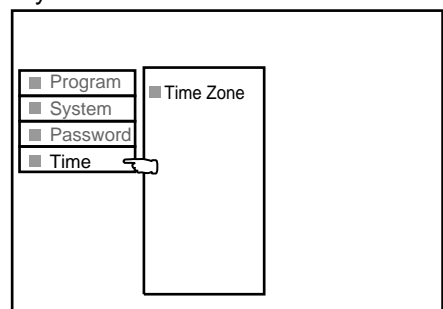
Following is the list of DTV channels available in your area. You can use it for Manual search. You can check the following list for channel number and channel frequency.

City	Identifier	Channel & Middle Frequency	Transmitter Location	Start Date
Adelaide	Digital 7	VHF 6-177.5MHz	Main Transmitter-Mt Lofty	1/1/2001
	Digital 9	VHF 8-191.625MHz	Main Transmitter-Mt Lofty	1/1/2001
	Digital 10	VHF 11-219.5MHz	Main Transmitter-Mt Lofty	1/1/2001
	Digital ABC	VHF 12-226.5MHz	Main Transmitter-Mt Lofty	1/1/2001
	Digital SBS	UHF 33-564.5MHz	Main Transmitter-Mt Lofty	1/1/2001
Brisbane	Digital 7	VHF 6-177.5MHz	Main Transmitter-Mt Coot-tha	1/1/2001
	Digital 9	VHF 8-191.625MHz	Main Transmitter-Mt Coot-tha	1/1/2001
	Digital 10	VHF 11-219.5MHz	Main Transmitter-Mt Coot-tha	1/1/2001
	Digital ABC	VHF 12-226.5MHz	Main Transmitter-Mt Coot-tha	1/1/2001
	Digital SBS	UHF 36-585.5MHz	Main Transmitter-Mt Coot-tha	1/1/2001
Melbourne	Digital 7	VHF 6-177.5MHz	Main Transmitter-Mt Dandenong	1/1/2001
	Digital 9	VHF 8-191.625MHz	Main Transmitter-Mt Dandenong	1/1/2001
	Digital 10	VHF 11-219.5MHz	Main Transmitter-Mt Dandenong	1/1/2001
	Digital ABC	VHF 12-226.5MHz	Main Transmitter-Mt Dandenong	1/1/2001
	Digital SBS	UHF 29-536.625MHz	Main Transmitter-Mt Dandenong	1/1/2001
Perth	Digital 7	VHF 6-177.5MHz	Main Transmitter-Bickley	1/1/2001
	Digital 9	VHF 8-191.625MHz	Main Transmitter-Walliston	1/1/2001
	Digital 10	VHF 11-219.5MHz	Main Transmitter-Carmel	1/1/2001
	Digital ABC	VHF 12-226.5MHz	Main Transmitter-Bickley	1/1/2001
	Digital SBS	UHF 29-536.625MHz	Main Transmitter-Bickley	1/1/2001
Sydney	Digital 7	VHF 6-177.5MHz	Main TransmitterArtarmon	1/1/2001
	Digital 9	VHF 8-191.625MHz	Main Transmitter Willoughby	1/1/2001
	Digital 10	VHF 11-219.5MHz	Main Transmitter Artarmon	1/1/2001
	Digital ABC	VHF 12-226.5MHz	Main Transmitter Gore Hill	1/1/2001
	Digital SBS	UHF 34-571.5MHz	Main Transmitter Gore Hill	1/1/2001
Batchelor	QQQ-51	UHF 50-683.5MHz		
	SBS-54	UHF 53-704.5MHz		
	ABD-69	UHF 56-725.5MHz		
	NTD-60	UHF 59-746.5MHz		
	TN D-63	UHF 62-767.5MHz		
	IMP-66	UHF 65-788.5MHz		
Canberra	CTC-7	UHF 6-177.5MHz	Telstra Tower Black Mountain	TBA
	ABC-9	UHF 9A-205.5MHz	Telstra Tower Black Mountain	TBA
	WIN-31	UHF 11-219.5MHz	Telstra Tower Black Mountain	TBA
	CBN-34	UHF 12-226.5MHz	Telstra Tower Black Mountain	TBA
	SBS-28	UHF 30-613.5MHz	Telstra Tower Black Mountain	TBA
Darwin	SBS-28	UHF 29-536.5MHz		
	ABD-6	UHF 30-543.5MHz		
	NTD-8	UHF 31-550.5MHz		
	TN D-34	UHF 32-557.5MHz		
Newcastle	NBN-3	UHF 36-585.5MHz	Mt Sugarloaf	6/30/2001
	NEN-54	UHF 53-704.5MHz	Broadcast Site Mt Sugarloaf Range	TBA
	NRN-57	UHF 51-690.5MHz	Broadcast Site Mt Sugarloaf Range	6/30/2001
	ABHN-5A/4B	UHF 37-592.5MHz	Mt Sugarloaf	TBA
	SBS-45	UHF 38-599.5MHz	Mt Sugarloaf	TBA
Wollongong	WIN-59	UHF 36-585.5MHz	WIN Tower Knights Hill	TBA
	CTC-62	UHF 37-592.5MHz	NTL Tower Knights Hill	TBA
	CBN-65	UHF 38-599.5MHz	WIN Tower Knights Hill	TBA
	ABWN-56	UHF 51-590.5MHz	NTL Tower Knights Hill	TBA
	SBS-53	UHF 54-711.5MHz	NTL Tower Knights Hill	TBA

Note: If you have trouble getting DTV channel's signal, please contact your local antenna installer for help. For updated channel table please contact your local dealer.

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Solutions
No power.	● Plug the power cord into the wall outlet securely.
No picture.	● Check your antenna input or location. ● Make sure the correct video display format is selected. ● If the STB is connected to your monitor or TV via VIDEO OUT jack on the back panel, the display format must be **SD**. Otherwise, you may not be able to see a picture. ● If STB is connected to your monitor or TV via YPbPr port or RGB on the back panel, the display format must not be **SD**. Otherwise, you may not be able to see a picture. ● If STB is connected to your monitor or TV via YPbPr port on the back panel, the YPbPr/RGB selection switch must be flipped to the YPbPr. Otherwise, you may not be able to see a picture. ● If STB is connected to your monitor or TV via RGB port on the back panel, the YPbPr/RGB selection switch must be flipped to the RGB. Otherwise, you may not be able to see a picture. ● Check to make sure all the cables are installed correctly and that the proper source is selected on your TV. ● The antenna signal strength may be low. Check the signal strength and adjust the antenna location and direction.
The toggle of Display Format Selection Switch can not effect.	● After you toggle the Display Format Selection Switch, you must turn off the STB and then turn on again, then the toggling can effect.
Normal picture but no sound.	● Check volume levels. ● Make sure the TV is not muted. ● Check that the STB is connected properly.
Picture is distorted.	● Make sure the proper format is selected. ● Make sure the proper aspect ratio is selected. ● Make sure the video output is connected to the TV.
Available channels are missing.	● The only way that you can find all the available channels is by running the Auto search in the Program menu.
No teletext	● Make sure the channel you are watching carries teletext information.
Password is forgotten.	● If you forget your password, perform the following steps to enter. When the dialogue box asking you to enter a password appears, press TELETEXT button, followed by ASPECT button, DSP button and then AUDIO button, and then you can enter. But make sure not let children know it.
The remote control does not work properly	● Point the remote control at the remote sensor of the STB. Operate the remote control within 5m. ● Remove the obstacle. ● Replace the batteries with new ones.

Television System		PAL, DTV standard (1080i, 720p, 576p, 576i)
Channel Coverage		Terrestrial: 6-69
Input/Output	ANT Input	1
	ANT Output	1 (Out to TV)
	Component Video Output (YPbPr)	1 group, RCA type (1080i, 720p, 576p)
	S-Video Output	1
	AV Output	2 groups, RCA type
	Digital Audio Output	Coaxial, Optical
	RS-232 Interface	1, 9-pin Serial Port
	RGB	1, 15-pin D-sub
Dimension (W x H x D)		350 x 50 x 280 mm
Weight		3.5 kg
Power Requirements		AC 240V, 50Hz
Power Consumption		30W
Environment	Humidity	0 to 99 percent non condensing
	Storage Temperature	-20 to 60 degrees Celsius
	Operating Temperature	0 to 40 degrees Celsius

Note: Design and specifications are subject to change without notice.

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